

1/11

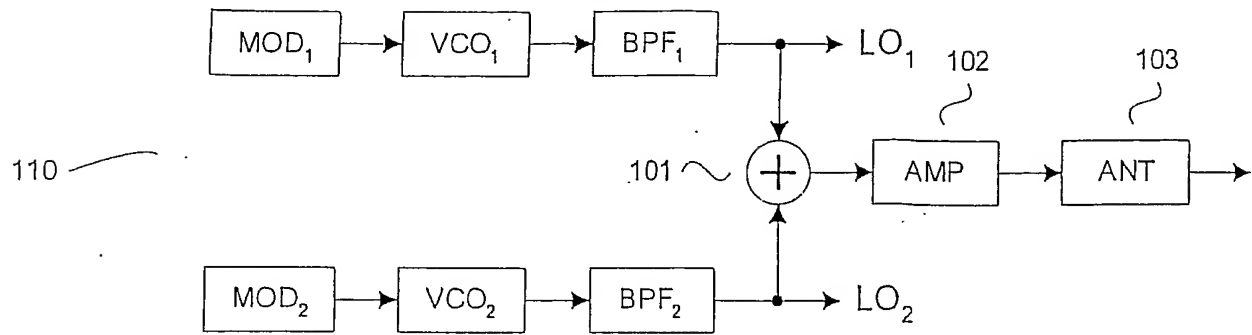


Fig. 1a Transmitter

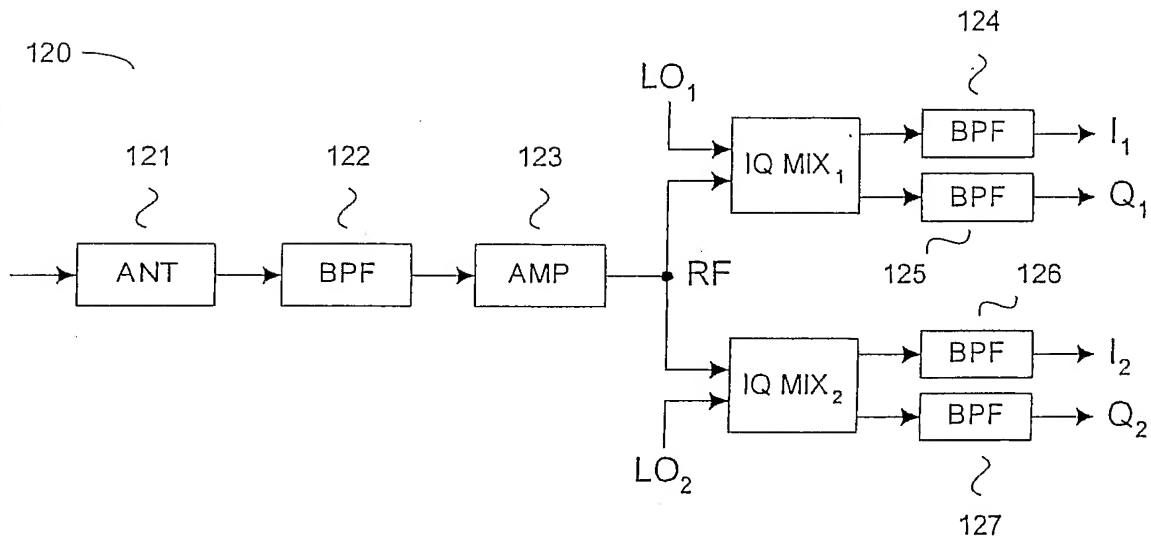


Fig. 1b Receiver (one channel)

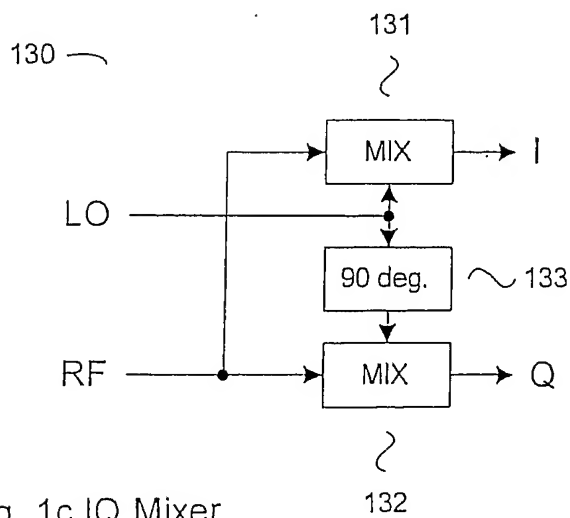


Fig. 1c IQ Mixer

Relative Location of Receive
Antenna Channels
(as seen from behind the antenna)

1	2
3	4

Figure 2

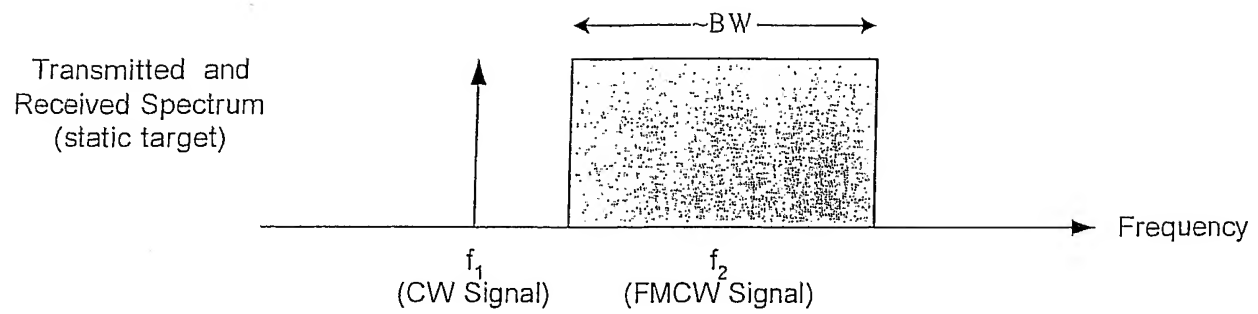


Figure 3a

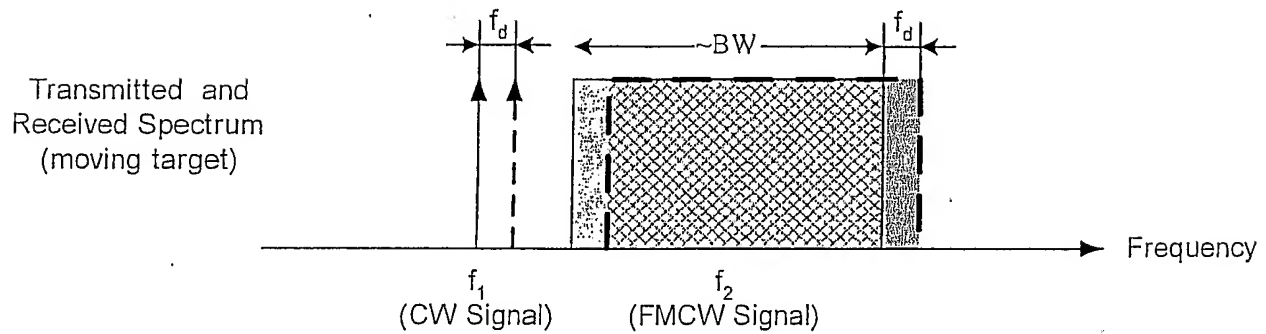


Figure 3b

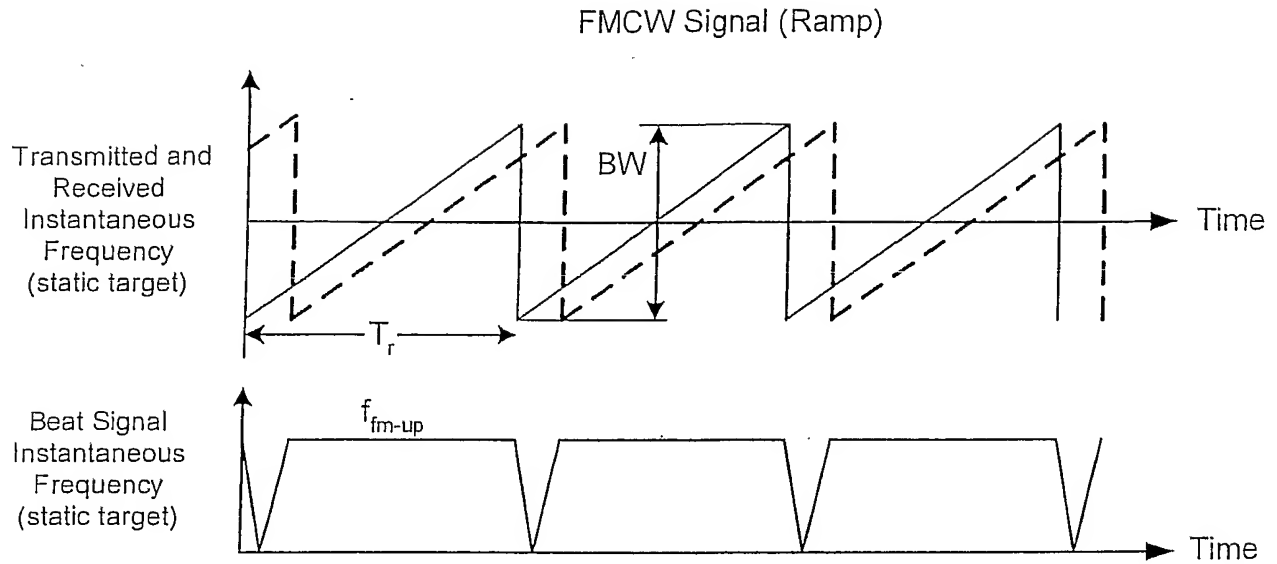


Figure 4a

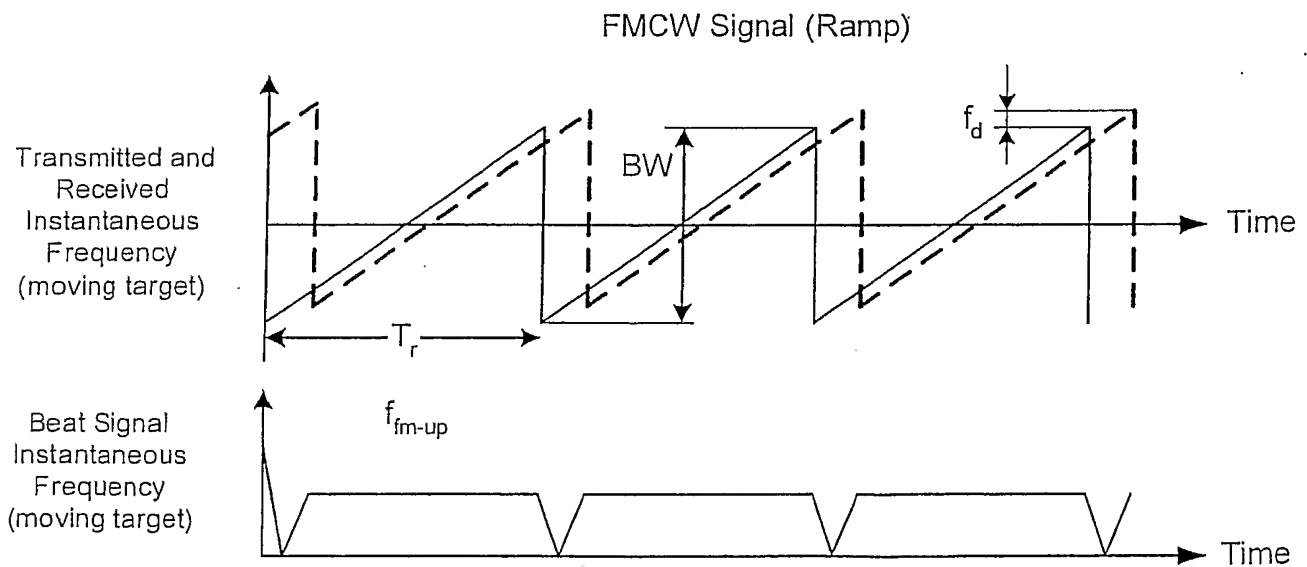


Figure 4b

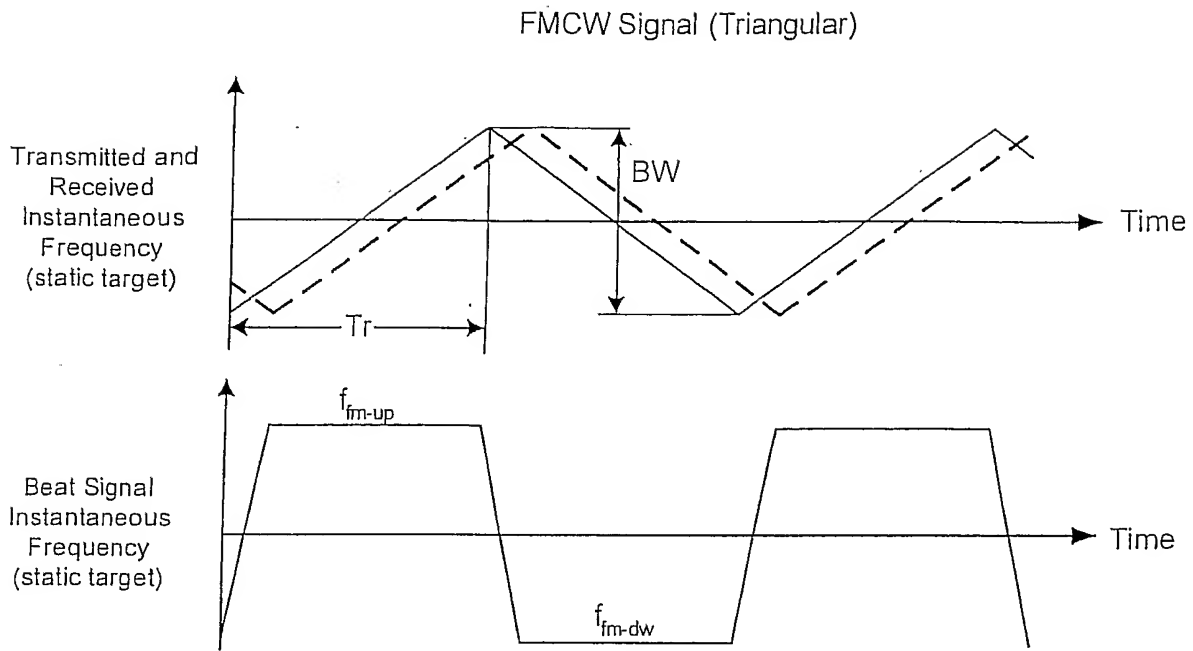


Figure 5a

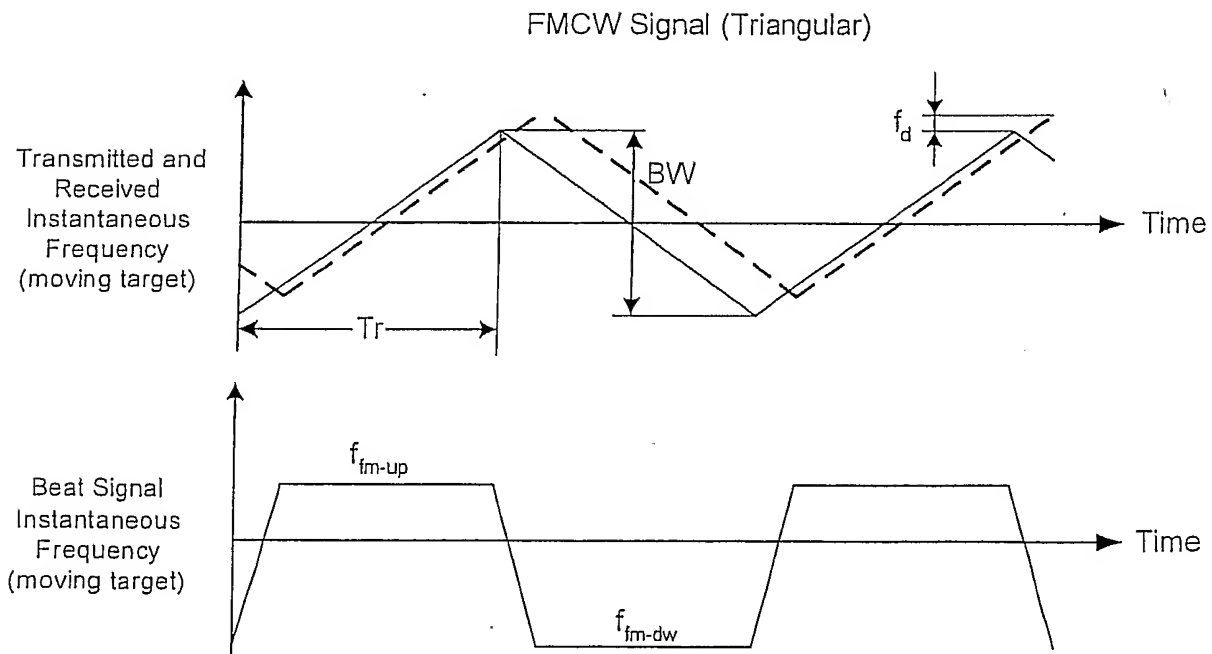


Figure 5b

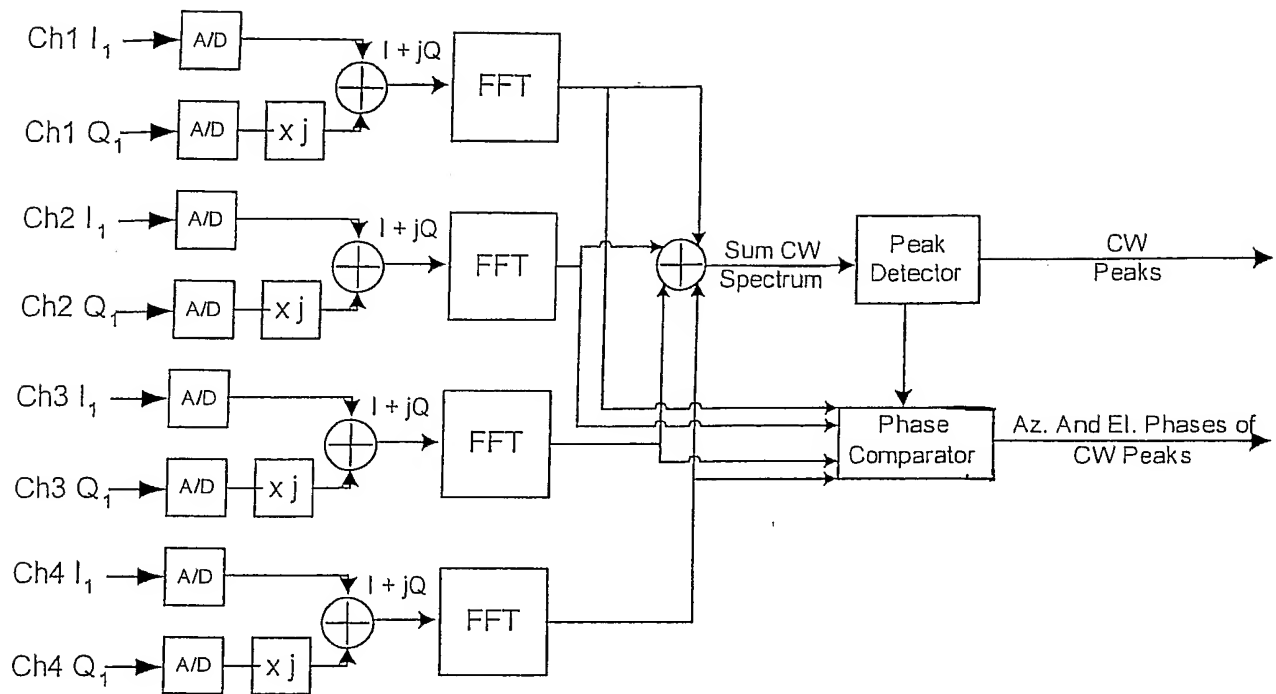


Figure 6a

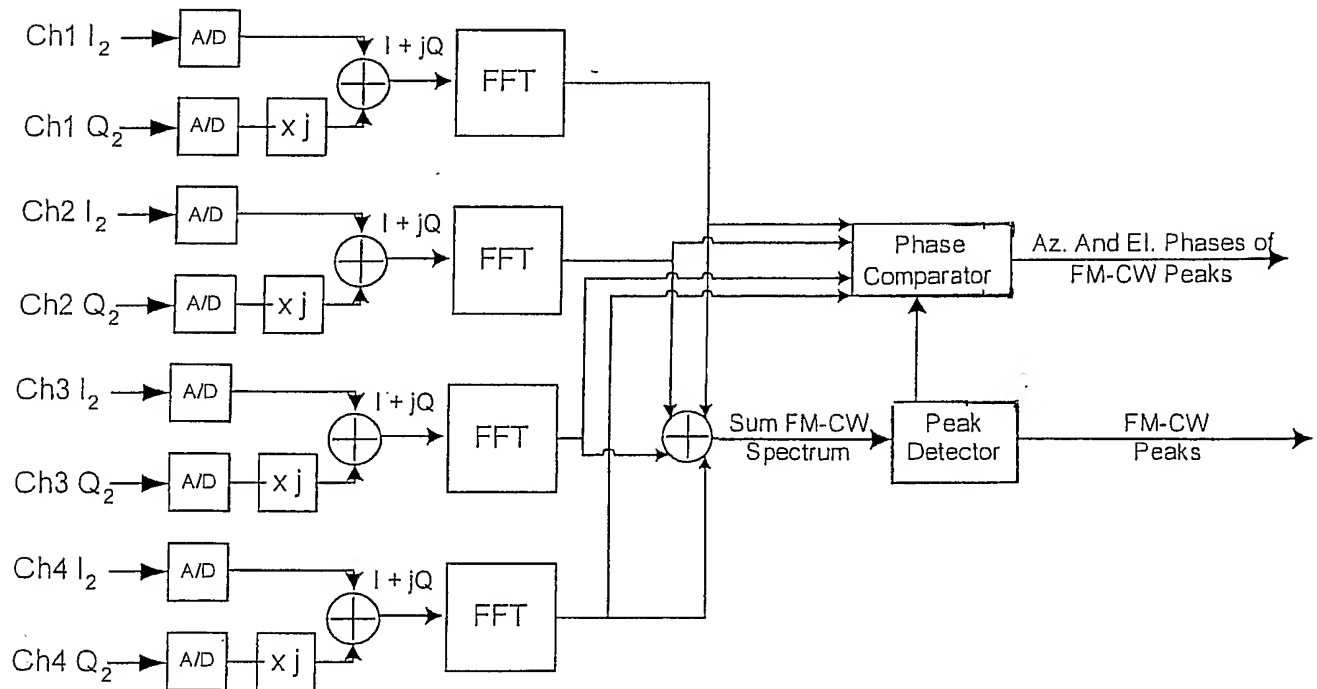


Figure 6b

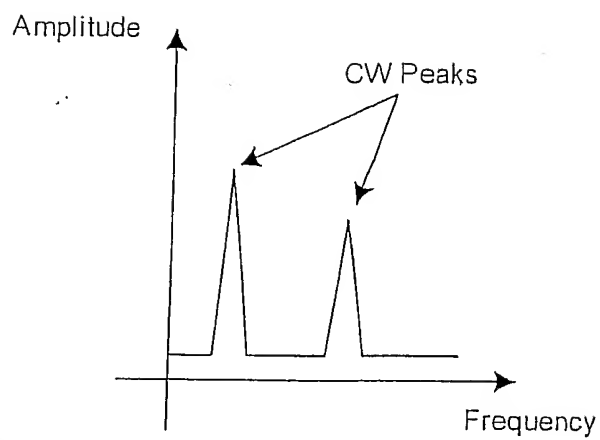


Figure 7a

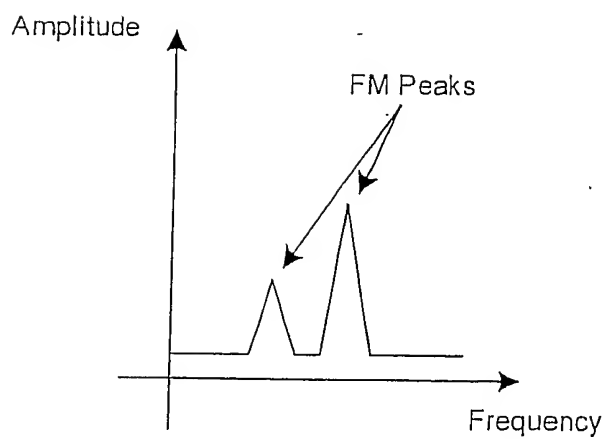


Figure 7b

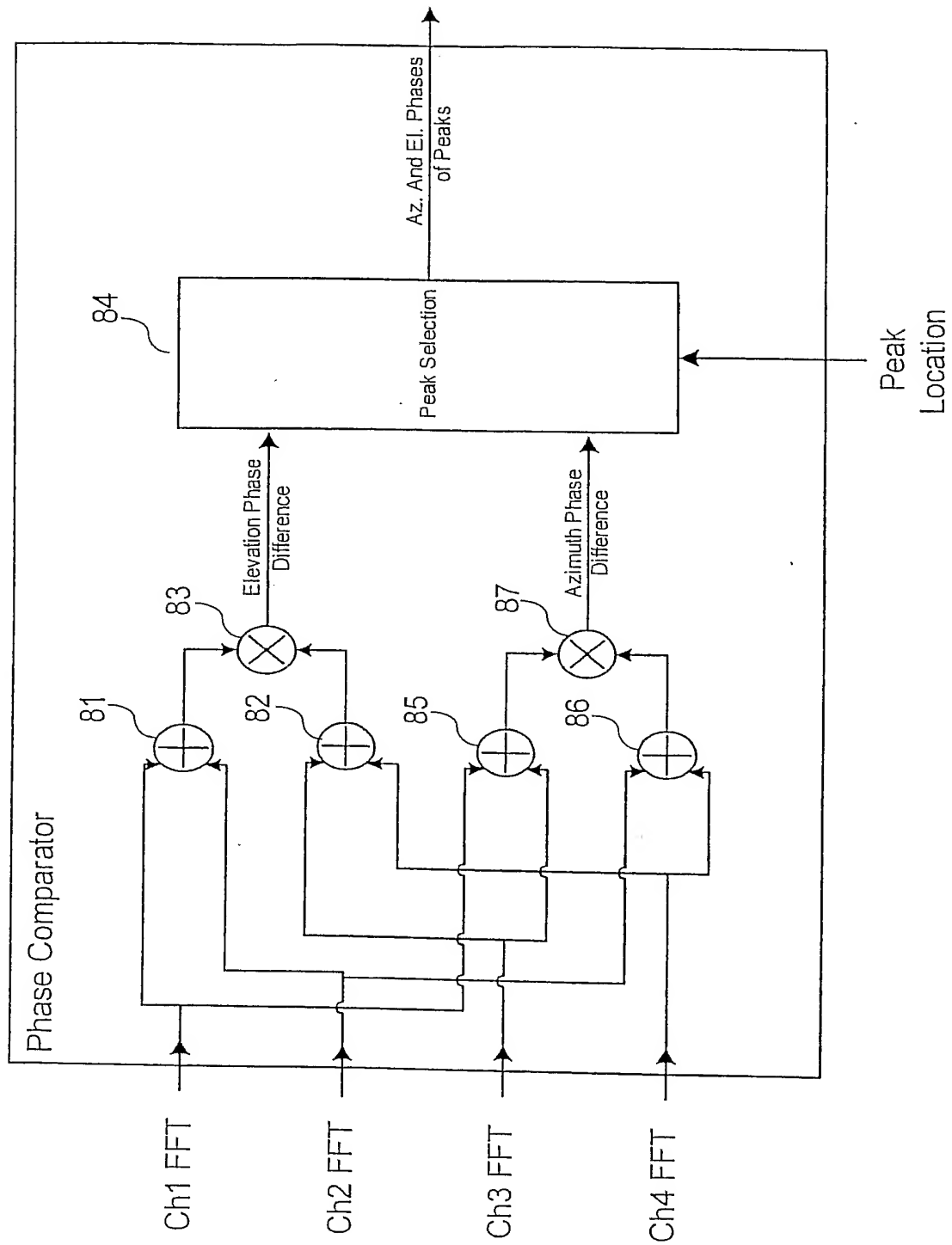
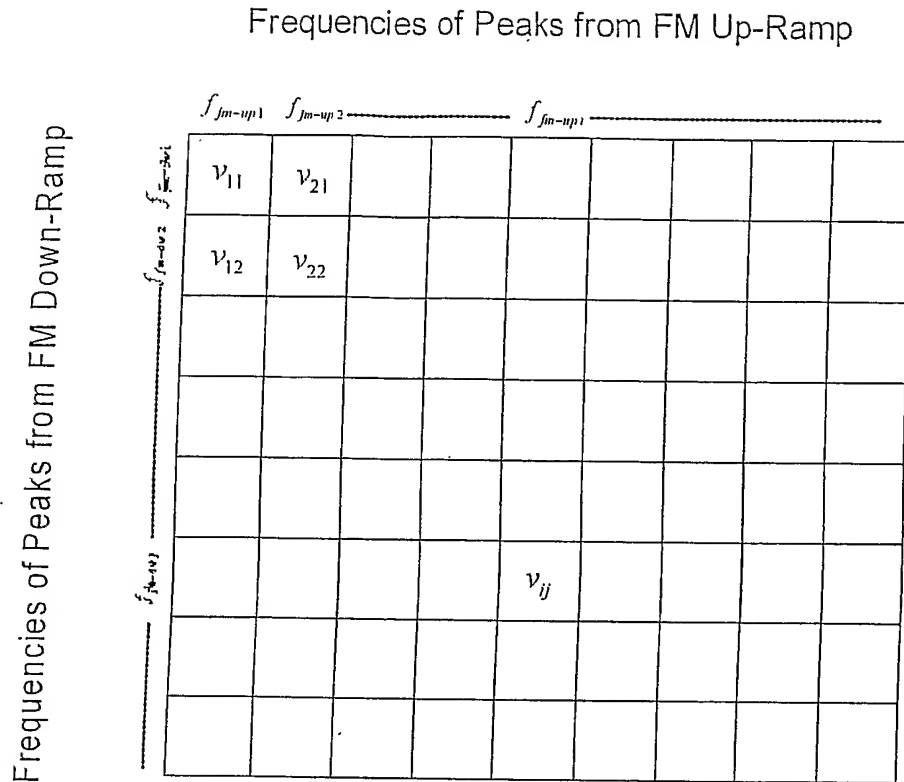


Figure 8



$f_{fm-up i}$: Frequency of upramp peak i
 $f_{fm-dw j}$: Frequency of downramp peak j
 v_{ij} : Velocity measurement derived from the selected pair of up- and downramp peaks

Figure 9

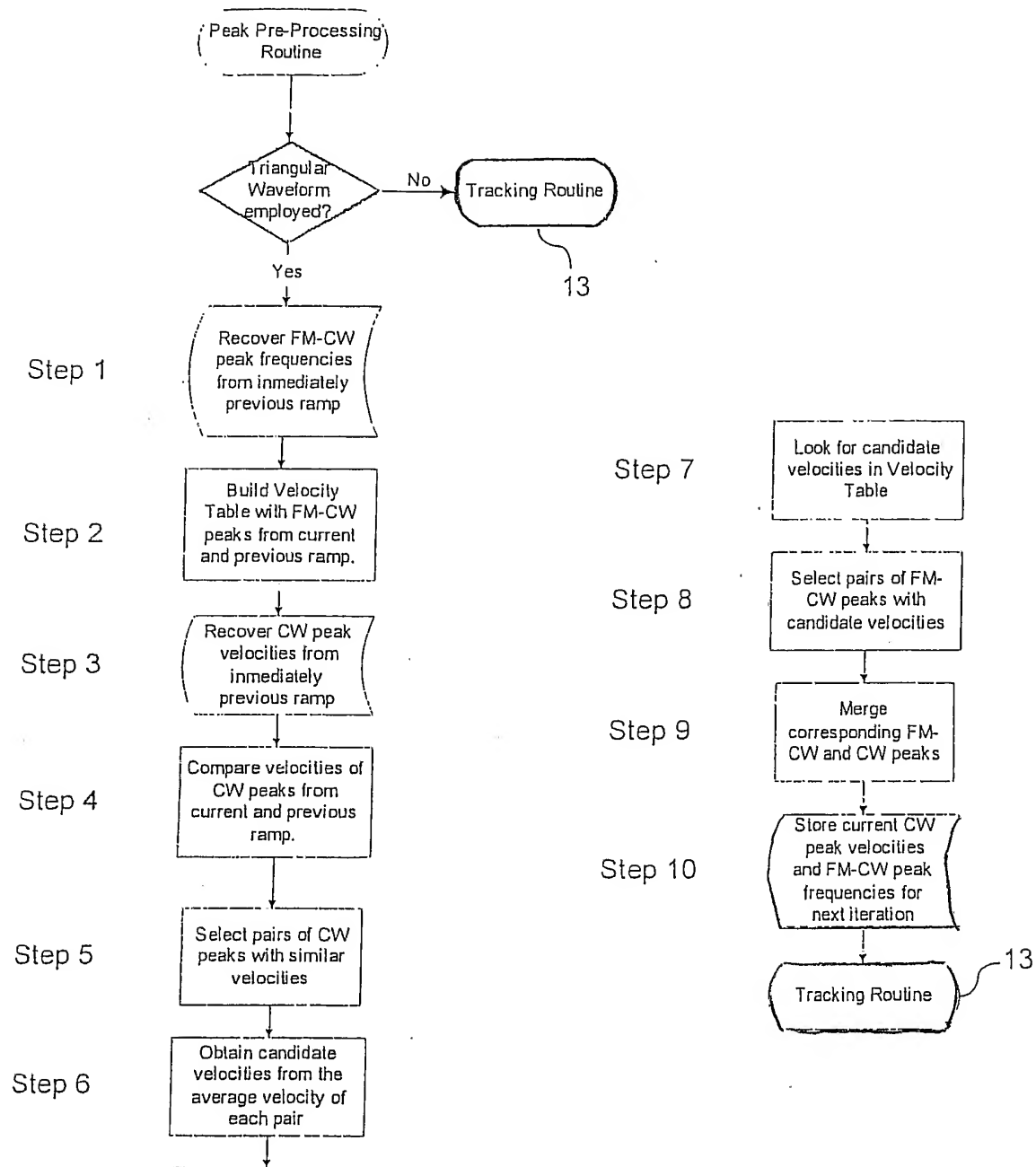


Figure 10

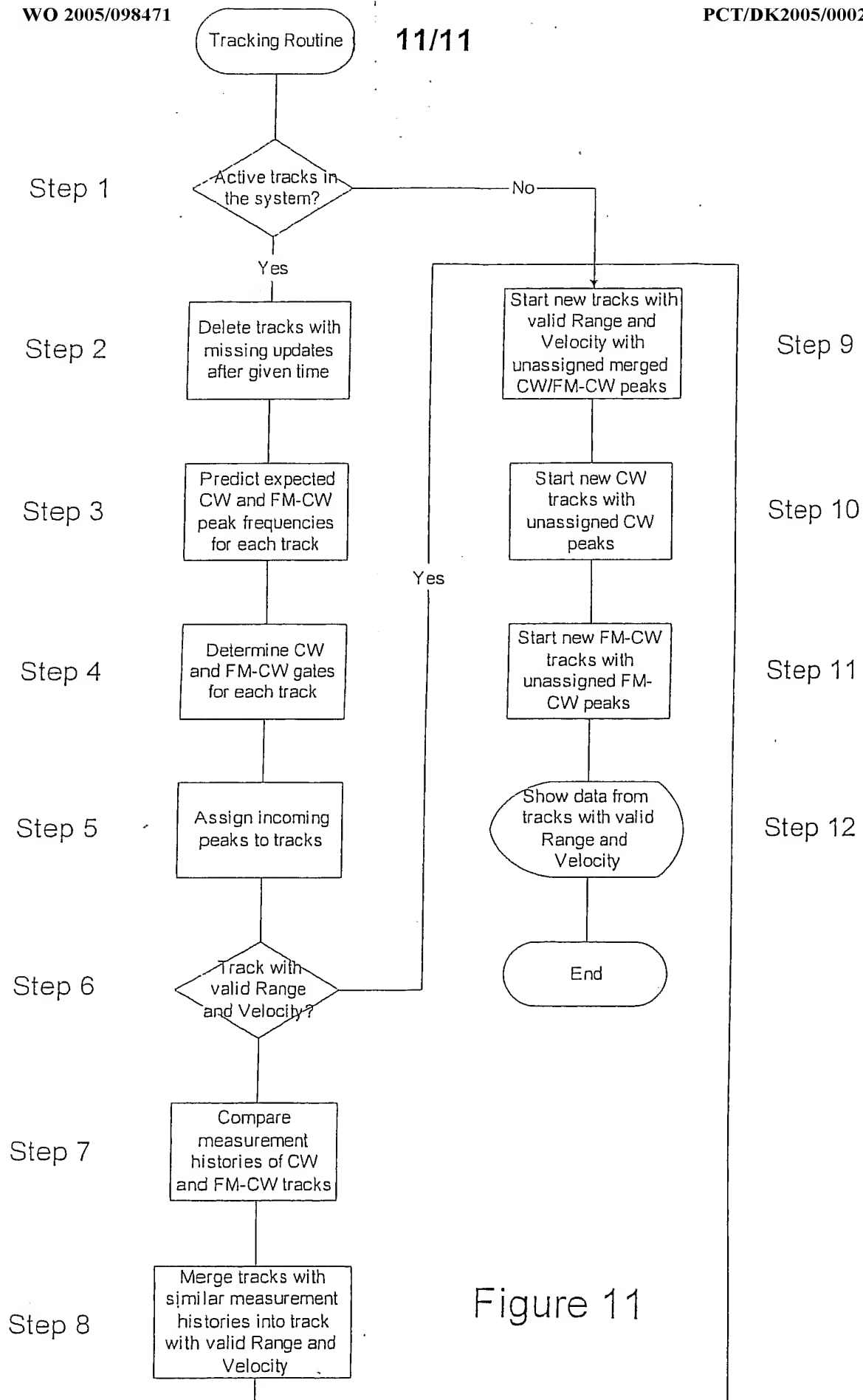


Figure 11